

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P323664

Luminaire Tested: **GAN-SA0D-827-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323664
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48231 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

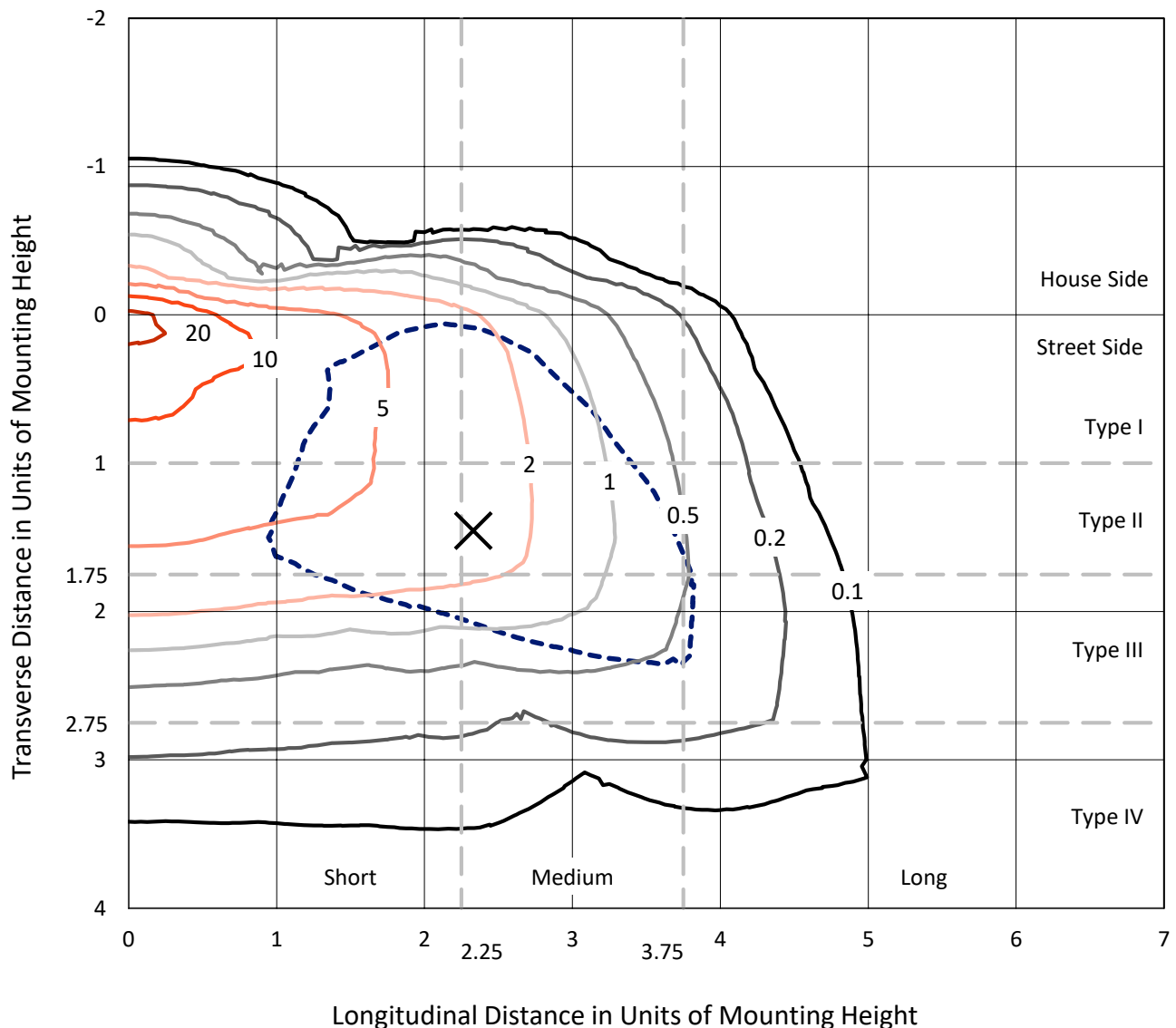
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

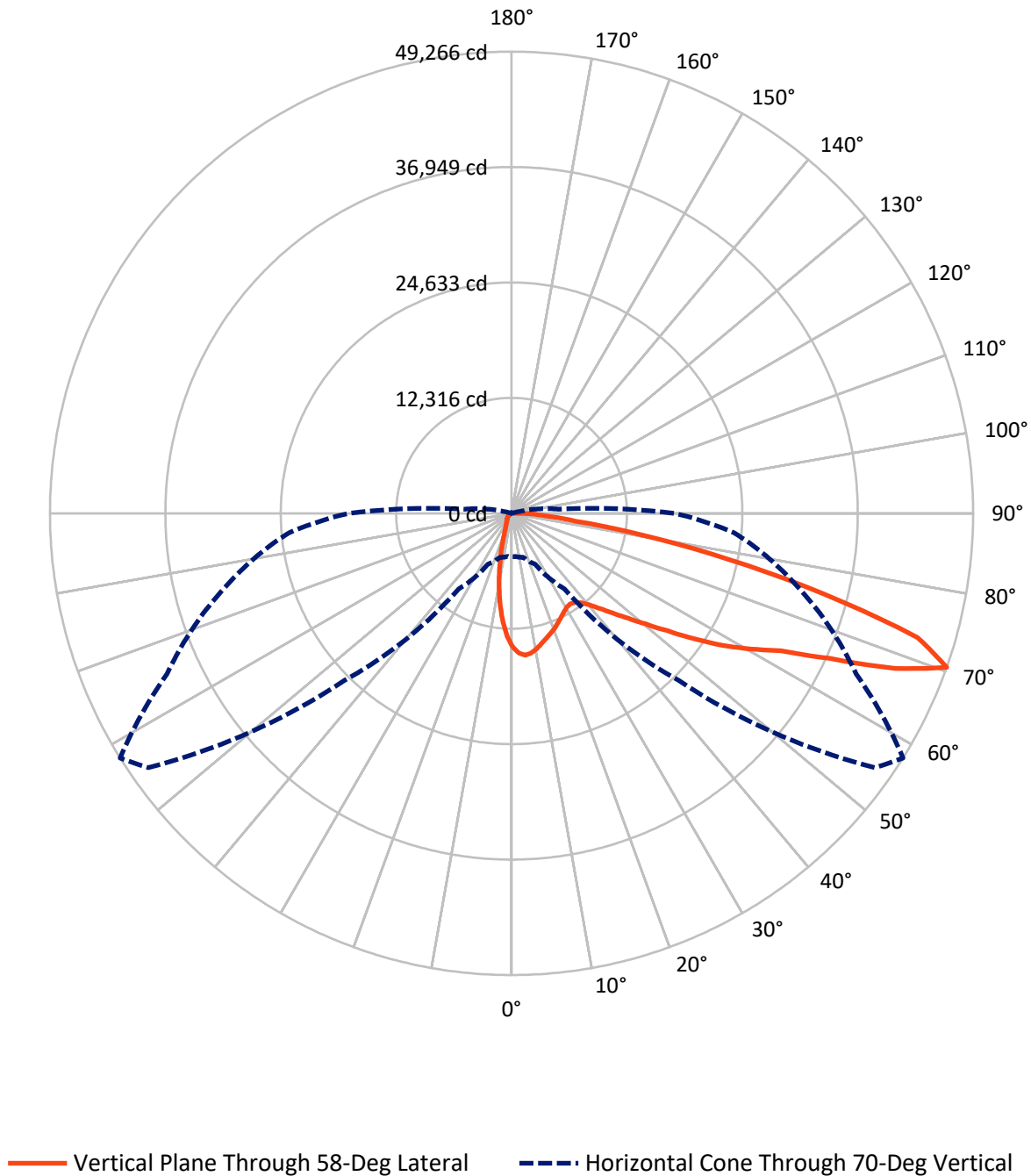
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.1 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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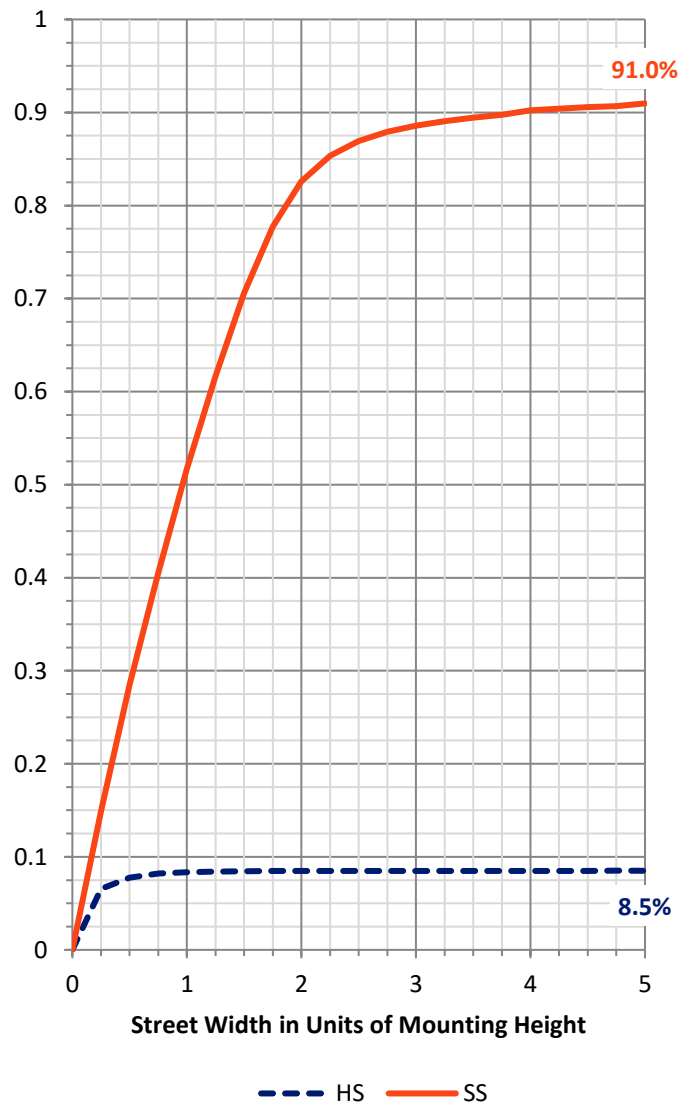
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4127.5	0.0	4127.5
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	44103.5	0.0	44103.5
	% Fixture	91.4	0.0	91.4
Total	Lumens	48231.0	0.0	48231.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1165.1	2.4
10°-20°	2445.2	5.1
20°-30°	3214.6	6.7
30°-40°	4257.3	8.8
40°-50°	6363.4	13.2
50°-60°	10193.9	21.1
60°-70°	12849.4	26.6
70°-80°	6930.9	14.4
80°-90°	811.3	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	48231.0	100.0
0°-180°	48231.0	100.0

Coefficient of Utilization



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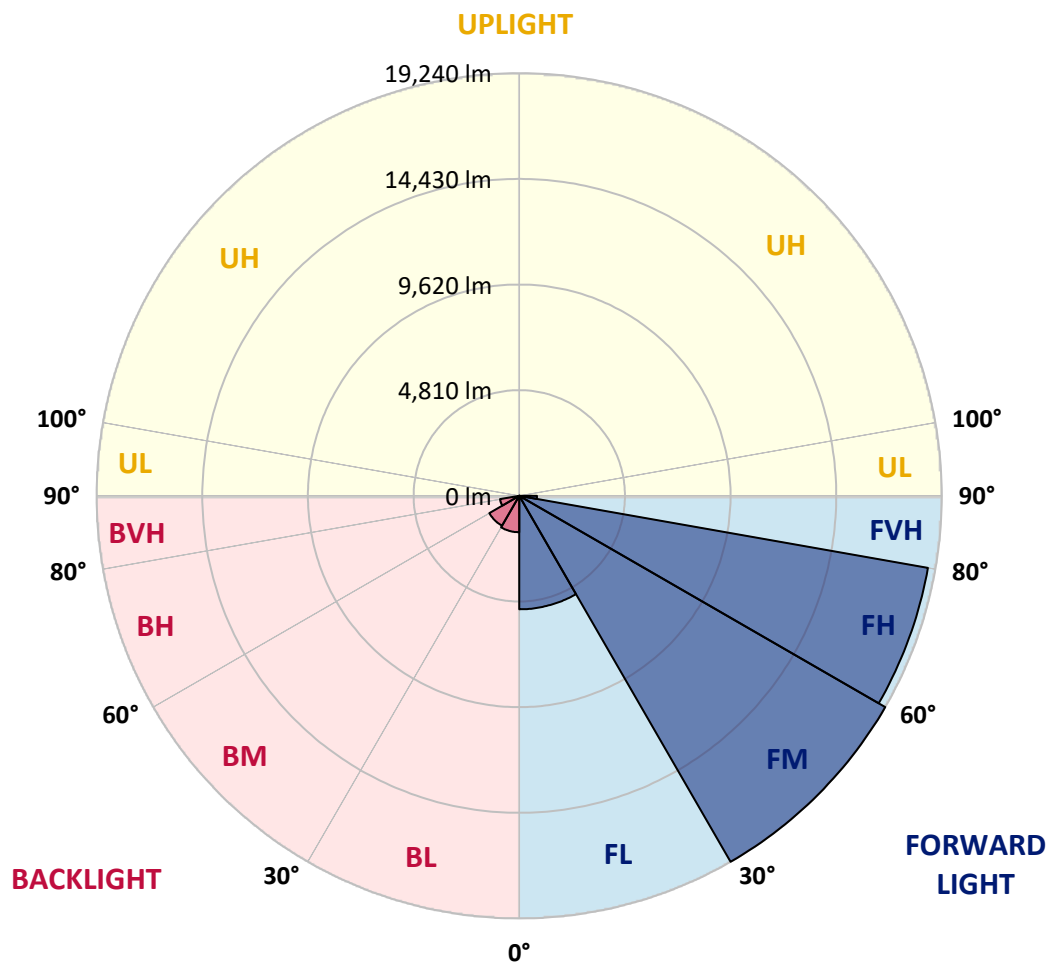
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5166.5	10.7			
FM	(30°-60°)	19240.1	39.9			
FH	(60°-80°)	18892.6	39.2			G5
FVH	(80°-90°)	804.3	1.7			G5
BL	(0°-30°)	1658.3	3.4	B3/2500		
BM	(30°-60°)	1574.6	3.3	B2/2500		
BH	(60°-80°)	887.6	1.8	B2/1000		G2/1000
BVH	(80°-90°)	7.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	14247.2	14247.2	14247.2	14247.2	14247.2	14247.2	14247.2	14247.2	14247.2	14247.2	14247.2
2.5°	15428.5	15390.4	15376.3	15352.3	15260.0	15169.7	14991.3	14941.1	14828.8	14562.1	14279.3
5°	15440.5	15438.5	15480.6	15470.6	15438.5	15396.4	15268.0	15201.8	15011.3	14630.3	14112.8
7.5°	14696.4	14734.6	14828.8	14905.0	14993.3	15107.6	15123.6	15059.4	14903.0	14491.9	13806.0
10°	13697.7	13757.9	13890.2	14040.6	14271.3	14499.9	14704.5	14696.4	14642.3	14237.2	13437.0
12.5°	12696.9	12767.1	12919.6	13142.2	13469.1	13842.1	14207.1	14257.2	14347.5	14008.6	13096.0
15°	11820.5	11880.7	12031.1	12303.9	12709.0	13210.4	13745.8	13838.1	14070.7	13830.1	12811.3
17.5°	11076.5	11114.6	11224.9	11527.7	11997.0	12604.7	13300.6	13481.1	13828.1	13689.7	12564.6
20°	10557.1	10563.1	10635.3	10847.9	11317.1	11997.0	12839.3	13098.0	13571.3	13569.3	12309.9
22.5°	10300.3	10280.3	10294.3	10416.7	10761.6	11417.4	12378.1	12684.9	13340.7	13467.1	12051.2
25°	10252.2	10236.2	10196.1	10212.1	10420.7	10910.0	11912.8	12267.8	13138.2	13404.9	11826.5
27.5°	10402.6	10418.7	10350.5	10278.3	10294.3	10581.1	11499.6	11910.8	12973.7	13404.9	11668.1
30°	10705.5	10713.5	10663.3	10569.1	10442.7	10488.9	11212.9	11624.0	12891.5	13497.1	11567.8
32.5°	11040.4	11084.5	11078.5	11002.3	10821.8	10635.3	11144.7	11519.7	12885.5	13701.7	11557.8
35°	11455.5	11505.7	11589.9	11573.9	11385.3	11078.5	11377.3	11672.1	13003.8	14038.6	11666.1
37.5°	11896.7	11973.0	12153.4	12239.7	12117.3	11770.4	11898.7	12109.3	13320.7	14584.1	11940.9
40°	12323.9	12410.2	12739.1	13078.0	12985.7	12628.8	12688.9	12857.4	13884.2	15368.3	12462.3
42.5°	12743.1	12871.4	13354.8	13912.3	14022.6	13737.8	13769.9	13904.3	14720.5	16447.3	13314.6
45°	13244.4	13388.8	14104.8	14792.7	15087.5	14963.2	15099.6	15187.8	15813.5	17873.2	14463.8
47.5°	13980.5	14146.9	15025.4	15809.5	16326.9	16407.2	16681.9	16740.1	17195.3	19533.8	15961.9
50°	15416.4	15462.6	16256.7	16968.7	17714.8	18196.1	18508.9	18553.1	18867.9	21348.8	17833.1
52.5°	17223.4	17253.5	17702.7	18180.0	19028.4	20011.1	20743.1	20805.3	20871.4	23117.6	19680.2
55°	19018.3	19014.3	19311.1	19591.9	20562.6	21990.5	23578.9	23617.0	23141.7	24796.2	21092.0
57.5°	20139.4	20247.7	20699.0	21060.0	22415.7	24246.7	26450.8	26591.2	25526.2	26039.7	22487.9
60°	19782.4	19834.6	20835.3	22171.0	24724.0	27453.6	29356.8	29392.9	27319.2	27281.1	24252.7
62.5°	16854.4	16882.5	18454.8	21208.4	25893.3	31613.0	32862.4	32274.8	29380.9	29003.8	26364.6
65°	11551.8	11734.3	13047.9	16451.3	23745.3	34222.2	38289.4	37316.7	32523.5	31486.7	28273.8
67.5°	6802.7	6764.6	7414.4	9921.3	17440.0	32489.4	45154.3	44187.6	36809.3	33149.2	27714.3
70°	4646.8	4620.7	4869.4	6006.5	9845.1	25203.4	47314.2	49265.6	40593.7	32030.1	23851.6
72.5°	3317.1	3331.2	3698.2	4666.8	6181.0	14684.4	40688.0	45306.7	39408.5	27922.8	18129.9
75°	2252.2	2290.3	2815.7	3828.5	5418.9	7470.6	28873.5	34440.8	32090.3	20293.8	10420.7
77.5°	1211.3	1253.4	1873.2	3084.5	4899.5	5190.3	18573.1	23703.2	20157.5	9123.1	3020.3
80°	505.4	529.5	876.4	2242.2	4233.7	4558.5	10928.1	14373.6	8589.6	1799.0	673.9
82.5°	218.6	230.6	365.0	1337.7	3164.7	3848.6	5785.9	6915.0	2603.2	395.1	338.9
85°	42.1	44.1	150.4	707.9	2019.6	2172.0	3750.3	3676.1	1169.2	170.5	246.7
87.5°	0.0	0.0	36.1	222.6	593.6	1183.3	2288.3	2260.2	397.1	82.2	92.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14247.2	14247.2	14247.2	14247.2	14247.2	14247.2	14247.2	14247.2	14247.2	14247.2	14247.2
2.5°	14134.9	13996.5	13705.7	13346.7	13072.0	12769.1	12528.5	12223.6	12091.3	12097.3	12025.1
5°	13818.0	13533.2	12889.5	12077.2	11451.5	10805.7	10250.2	9696.7	9369.8	9263.5	9163.2
7.5°	13364.8	12913.5	11886.7	10635.3	9576.4	8541.5	7641.0	6848.8	6347.5	6102.8	6012.5
10°	12853.4	12219.6	10733.5	9085.0	7572.8	6173.0	5005.8	3991.0	3585.9	3311.1	3240.9
12.5°	12404.1	11545.8	9606.4	7494.6	5699.7	4011.0	2898.0	2266.2	1991.5	1883.2	1865.1
15°	11981.0	10916.0	8521.5	6054.7	3946.9	2468.8	1843.1	1628.5	1564.3	1546.3	1546.3
17.5°	11581.9	10316.4	7460.5	4636.8	2611.2	1730.8	1526.2	1478.1	1458.0	1456.0	1458.0
20°	11164.7	9716.7	6417.7	3397.3	1823.0	1466.0	1409.9	1383.8	1377.8	1377.8	1377.8
22.5°	10765.6	9117.1	5402.9	2426.7	1462.0	1337.7	1309.6	1291.6	1285.5	1283.5	1279.5
25°	10382.6	8547.5	4412.1	1714.7	1283.5	1225.4	1201.3	1177.2	1159.2	1149.2	1143.1
27.5°	10067.7	8040.1	3489.6	1375.8	1159.2	1109.1	1079.0	1042.9	998.7	978.7	970.7
30°	9817.0	7576.9	2689.4	1161.2	1042.9	992.7	946.6	884.4	820.3	786.2	784.2
32.5°	9620.5	7121.6	2041.6	1026.8	938.6	876.4	810.2	732.0	657.8	619.7	617.7
35°	9524.2	6720.5	1560.3	928.6	846.3	768.1	685.9	599.7	527.5	491.4	487.3
37.5°	9588.4	6381.6	1217.4	846.3	768.1	677.9	581.6	491.4	427.2	395.1	393.1
40°	9823.0	6165.0	988.7	776.1	701.9	591.6	487.3	403.1	349.0	322.9	320.9
42.5°	10322.4	6084.7	844.3	718.0	637.8	511.4	405.1	332.9	282.8	264.7	260.7
45°	11156.7	6203.1	746.1	661.8	571.6	435.2	334.9	272.8	228.6	214.6	212.6
47.5°	12267.8	6513.9	675.9	607.7	511.4	367.0	278.8	220.6	186.5	172.5	170.5
50°	13699.7	7007.3	617.7	553.5	455.3	310.9	230.6	174.5	144.4	134.4	134.4
52.5°	15258.0	7594.9	565.6	503.4	399.1	258.7	186.5	134.4	114.3	102.3	102.3
55°	16545.5	8108.3	509.4	465.3	330.9	214.6	142.4	102.3	84.2	78.2	78.2
57.5°	17831.1	8655.8	445.2	399.1	264.7	174.5	108.3	76.2	62.2	58.2	58.2
60°	19497.7	9325.7	383.1	324.9	208.6	132.4	80.2	54.1	46.1	44.1	44.1
62.5°	21330.7	9718.7	326.9	260.7	162.4	98.3	58.2	36.1	34.1	34.1	32.1
65°	22451.8	9163.2	274.8	208.6	126.3	74.2	38.1	26.1	30.1	28.1	24.1
67.5°	21021.9	7173.7	224.6	162.4	98.3	56.2	24.1	18.0	32.1	26.1	20.1
70°	17405.9	5021.8	174.5	114.3	78.2	48.1	16.0	12.0	34.1	26.1	16.0
72.5°	13025.8	3361.3	138.4	76.2	58.2	42.1	14.0	6.0	30.1	22.1	14.0
75°	7117.6	1353.7	110.3	48.1	36.1	30.1	10.0	4.0	20.1	16.0	10.0
77.5°	1873.2	357.0	80.2	32.1	20.1	12.0	6.0	2.0	10.0	8.0	4.0
80°	477.3	138.4	52.1	22.1	14.0	6.0	0.0	0.0	2.0	0.0	0.0
82.5°	254.7	58.2	32.1	16.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	192.5	38.1	18.0	10.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	74.2	12.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)